ROCKTRON

TECHNOLOGY FOR GUITARISTS

VELOCITY®

V50C

ELECTRIC GUITAR AMPLIFIER WITH CHORUS, REVERB AND BUILT-IN CHROMATIC TUNER

User's Manual

Velocity® is a registered trademark of GHS Corporation Battle Creek MI, USA

May be covered by one or more of the following: U.S. Patents #4538297, 4647876, 4696044, 4745309, 4881047, 4893099, 5124657, 5263091, 5268527, 5319713, 5333201, 5402498 and 5493617.
Other patents pending. Foreign patents pending.

CE

Your Rocktron Velocity V50C amplifier has been designed to comply with the following Standards and Directives as set forth by the European Union:

Council Directive(s):	89/336/EEC, 73/23/EEC, 76/769/EC, 1994/62/EC, 2000/53/EC, 2002/95/EC
Standard(s):	EN55022, EN50082-1, EN60065

This means that this product has been designed to meet stringent guidelines on how much RF energy it can emit, and that it should be immune from other sources of interference when properly used. Improper use of this equipment could result in increased RF emissions, which may or may not interfere with other electronic products.

To insure against this possibility, always use good shielded cables for all audio input connections. This will help insure compliance with the Directive(s).

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Precautions

NOTE: IT IS VERY IMPORTANT THAT YOU READ THIS SECTION TO PROVIDE YEARS OF TROUBLE FREE USE. THIS UNIT REQUIRES CAREFUL HANDLING.

- All warnings on this equipment and in the operating instructions should be adhered to and all operating instructions should be followed.
- Do not use this equipment near water. Care should be taken so that objects do not fall and liquids are not spilled into the unit through any openings.
- The power cord should be unplugged from the outlet when left unused for a long period of time.
- Do not block any ventilation openings (if applicable). Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- Only used attachments/accessories specified by the manufacturer.
- Do not use this product with any case, stand tripod, bracket or table that is not specified by the manufacturer. Insure that the case, stand, tripod, bracket etc. is properly adjusted and setup (follow all instructions). Extra care and caution should be taken to avoid tip over and injury.
- Unplug this apparatus during lightning storms or when unused during long periods of time.

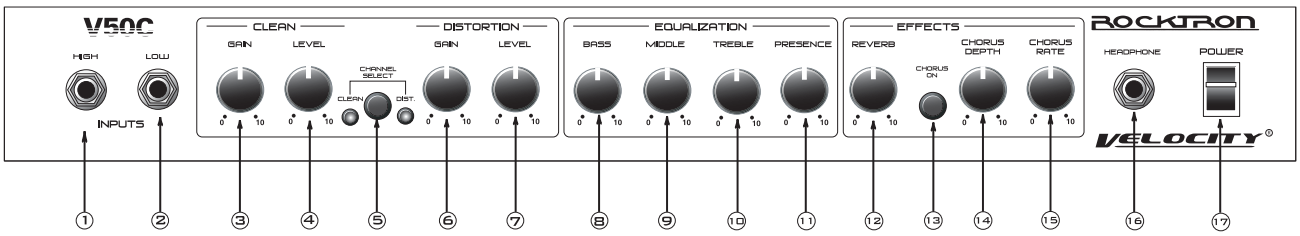
Refer all service to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply or plug is damaged, liquid has been spilled or objects have fallen into the apparatus or if the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

DO NOT ATTEMPT TO SERVICE THIS EQUIPMENT. THIS EQUIPMENT SHOULD BE SERVICED BY QUALIFIED PERSONNEL ONLY. DO NOT MAKE ANY INTERNAL ADJUSTMENTS OR ADDITIONS TO THIS EQUIPMENT AT ANY TIME. DO NOT TAMPER WITH INTERNAL ELECTRONIC COMPONENTS AT ANY TIME. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID THE WARRANTY OF THIS EQUIPMENT, AS WELL AS CAUSING SHOCK HAZARD.

OPERATING TEMPERATURE

Do not expose this unit to excessive heat. This unit is designed to operate between 32° F and 104° F (0° C and 40° C). This unit may not function properly under extreme temperatures.

FRONT PANEL DESCRIPTIONS



INPUT JACKS

1 **HIGH INPUT jack**

This is a high impedence input jack. Connect the output of your guitar to the 1/4" input jack with a shielded guitar cable. Use this jack if you want a little more "edge" to your input. Note use only the High or the Low input, not both at the same time.

2 **LOW INPUT jack**

This is a low impedence input jack. Connect the output of your guitar to the 1/4" input jack with a shielded guitar cable. Use this jack if you want a little less "edge" to your input. Note use only the High or the Low input, not both at the same time.

CLEAN CHANNEL

3 **GAIN control**

This knob determines the amount of GAIN (or distortion) added to the clean signal. Turning the knob clockwise will add more GAIN to the signal. Turning the knob counter-clockwise will decrease the amount of GAIN added to the signal.

4 **LEVEL control**

This knob determines the LEVEL (or volume) of the CLEAN channel. Turning the knob clockwise will increase the LEVEL of the clean channel. Turning the knob counter-clockwise will decrease the LEVEL of the clean channel.

5 **CH SELECT Button /CLEAN & DIST. LEDs**

Channel Select button allows you to select between the CLEAN or the DISTORTION channel. When the CLEAN LED is ON (or lit) the CLEAN channel is active. When the DIST. LED is ON (or lit) the DISTORTION channel is active.

DISTORTION CHANNEL

6 **GAIN control**

This knob determines the amount of GAIN (or distortion) added to the signal in the distortion channel. Turning the knob clockwise will add more GAIN to the signal. Turning the knob counter-clockwise will decrease the amount of GAIN added to the signal.

7 **LEVEL control**

This knob determines the LEVEL (or volume) of the distortion channel. Turning the knob clockwise will increase the LEVEL of the distortion channel. Turning the knob counter-clockwise will decrease the LEVEL of the distortion channel.

EQUALIZATION CONTROLS

(8) **BASS control**
This knob controls the overall bass of both the CLEAN and DISTORTION channels. The BASS control boosts or cuts the amount of low frequencies, or bass sound in the signal.

(9) **MIDDLE control**
This knob controls the overall MIDDLE frequencies of both the CLEAN and DISTORTION channels. The MIDDLE control boosts or cuts the amount of mid-band frequencies present in the signal.

(10) **TREBLE control**
This knob controls the overall TREBLE of both the CLEAN and DISTORTION channels. The TREBLE control boosts or cuts the amount of high frequencies present in the signal.

(11) **PRESENCE control**
This knob controls the overall PRESENCE of both the CLEAN and DISTORTION channels. The PRESENCE will increase or decrease the definition of the notes being played.

EFFECTS and CONTROLS

(12) **REVERB control**
Adjusts the amount of reverb added to your guitar's signal. Turn the knob clockwise to increase the effect.

(13) **CHORUS button**
The Chorus button activates the stereo chorus. When the button is pushed in the Chorus is ON. When the button is out, the Chorus is OFF.

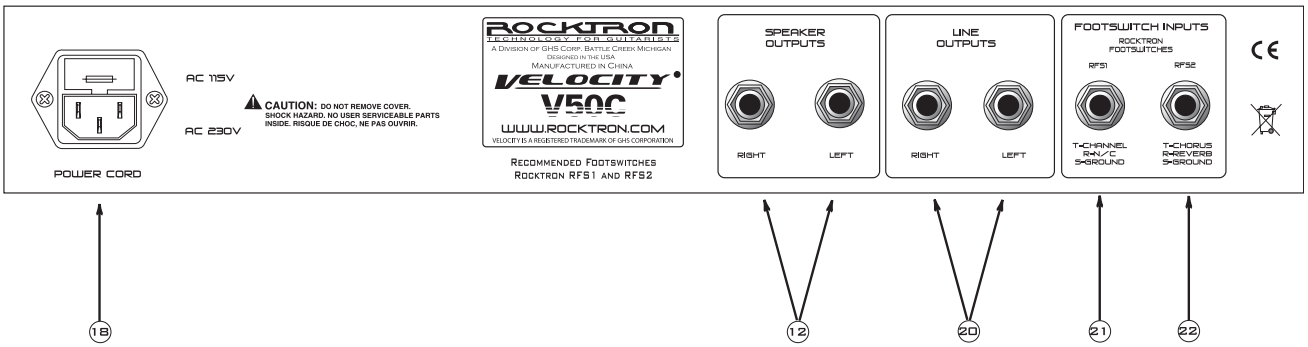
(14) **CHORUS DEPTH control**
The Chorus Depth control adjusts the amount of modulation. Turning it clockwise increases the depth of modulation. Turning it counter-clockwise decreases the depth of modulation.

(15) **CHORUS RATE control**
The Chorus Rate control adjusts the speed of the modulation. Turning this control clockwise increases the speed. Turning it counter-clockwise decreases the speed.

(16) **HEADPHONE jack**
Plugging your headphones into this jack disconnects the sound going to the speakers and allows you to practice in private.

(17) **POWER switch**
Turns the amp ON and OFF. When the LED is lit, the amp is on.

BACK PANEL DESCRIPTIONS



18 POWER CORD PLUG

Using the supplied detachable power cord, plug the amplifier into any standard wall outlet. Please be sure to check your local wiring and voltage to make sure your amplifier is the proper voltage for your area of the world. Please follow all the precaution guidelines found in the front of this manual. When replacing the fuse, please be sure to replace the fuse with the specific fuse as stated on the chassis next to the power cord plug. A description on how to change the fuse is covered later in this manual.

19 SPEAKER OUTPUT Jacks - Right & Left

Used to connect additional speaker cabinets if desired. The V50C will drive a 4x12 and sounds awesome. Connect only one additional 8 ohm cabinet per jack. Do not connect more than one per jack or you will damage your amp!

20 LINE OUT - Output Jacks - Right & Left

These 1/4" output jacks provide a line level signal. This can allow you to plug into a recording device, power amplifier, speaker simulator, PA system, etc. The line output is not controlled by the master volume control. Please follow all manufacturer's instructions when plugging this product into any outboard device.

FOOTSWITCH Jacks

21 FOOTSWITCH Input RFS1

Using a ROCKTRON RFS1 footswitch (sold separately) you can control your channel switching via a footswitch allowing you to switch between the CLEAN and DISTORTION channels.

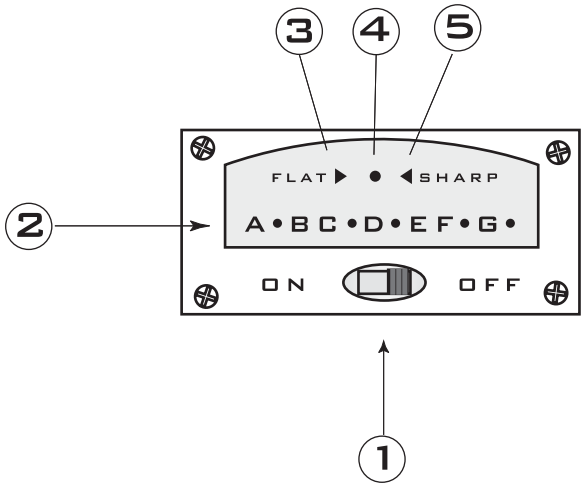
22 FOOTSWITCH Input RFS2

Using a ROCKTRON RFS2 footswitch and a stereo cord (both sold separately) you can turn both the REVERB and CHORUS effects ON and OFF.

**** Rocktron single (RFS1) and double (RFS2) footswitches are available and sold separately.***

Built-in Chromatic Tuner Functions

The built-in Chromatic Tuner is located on the top of the amplifier. The tuner is calibrated to A440, standard tuning. Please see below for function details.



1 **ON/OFF button**
Press this button to engage the tuner function. When tuner is "ON" the IN-TUNE (point 4) LED will be blinking.

2 **NOTE display**
The notes will light depending on the note being played or tuned. The dots between the notes show sharp or flat notes, such as A# or Bflat or C# or Dflat.

3 **FLAT Arrow**
When lit, this arrow shows that the note being tuned is FLAT.

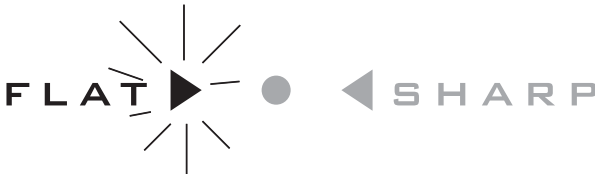
4 **IN-TUNE LED**
When lit, this green LED shows that you are IN-TUNE.

5 **SHARP Arrow**
When lit, this arrow shows that the note being tuned is SHARP.

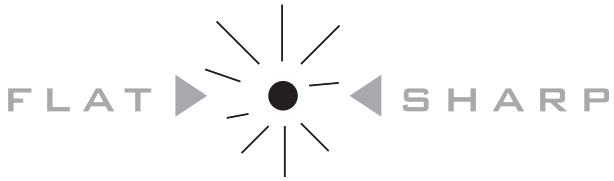
To Tune

1) Turn the tuner "ON"
2) Play a note on your guitar. The tuner automatically senses the note being played and will show you the note which is the closest to the one being played by lighting the appropriate NOTE in the NOTE LED display.

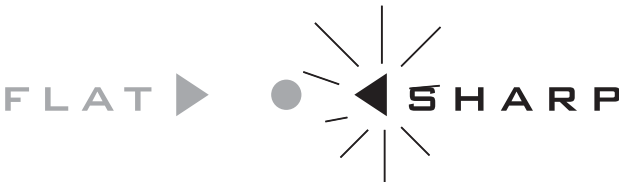
3) If the note being played is flat, the FLAT Arrow, will be flashing as shown below. This shows by "how much" the guitar is out of tune from the note being played (in standard 440Hz tuning).



4) Tune the string "up" until the center green LED is lit. As you are tuning the string up, the FLAT Arrow will decrease the flashing speed as you approach the IN-TUNE LED. Once this Green IN-TUNE LED is lit, the note is in tune.

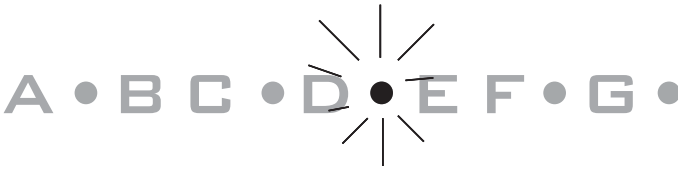


5) If the note being played is sharp, the SHARP Arrow, will be flashing as shown below.



5) Tune the string "down" until the center green LED is lit. As you are tuning the string down, the SHARP Arrow will decrease the flashing speed as you approach the IN-TUNE LED. Once this Green IN-TUNE LED is lit, the note is in tune.

6) To tune the string to a sharp or flat note, such as D# or Eflat tune the string up or down until the dot between the D and E (as shown below) is lit. The illustration below shows the string in Tune to D# (Eflat).

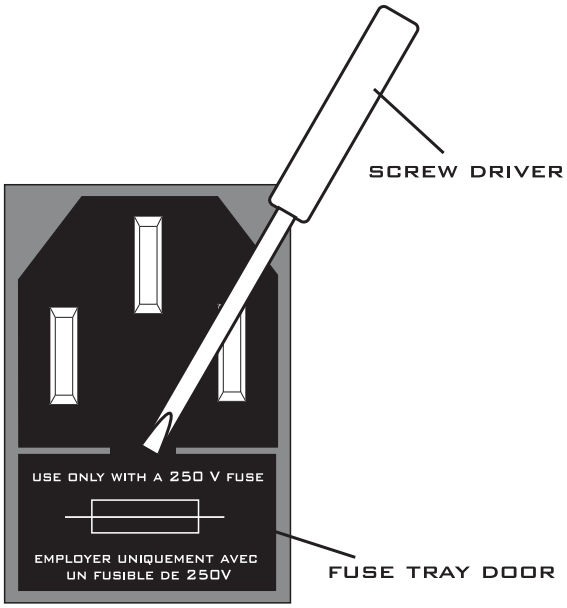


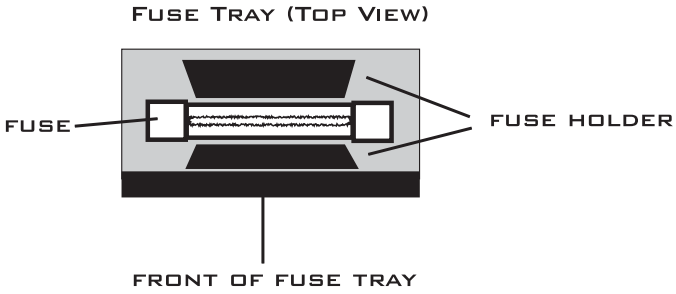
7) Follow instructions 3-5 (above) to accurately tune the string to D# (Eflat)

V50C Specifications

Power Output		50 Watts (2x25)
Speakers		2 x 8” Custom Voiced Velocity Speakers by Rocktron
EQ	Treble	Active Shelving
	Middle	Active Bandpass
	Bass	Active Shelving
	Presence	Active Shelving
Outputs:	Line	Two 1/4” jacks
	Speaker	Two 1/4” jacks
Headphone Output		One 1/4” jack
Channels		CLEAN and DISTORTION(Footswitchable via Rocktron RFS1 footswitch - sold separately)
Effects		Built-in REVERB and STEREO CHORUS (Footswitchable via Rocktron RFS2 footswitch - sold separately)
Dimensions		512mm(W) x 226mm(H) x 412mm(D) 20.5” x 9” x 16.5”
Weight		31.9lbs (15.5KG)
Power Requirements		100 Volts AC 50/60Hz or 117 Volts AC, 60Hz or 220/240 Volts AC, 50/60Hz, as specified on chassis
Fuse		100-120V - use F3A 220-240V - use F1A

Fuse Replacement





We recommend that you use an authorized repair person to change the fuse in this unit.

To access the fuse, first power down the unit and unplug the cable from the wall outlet and the amplifier. Using a small screw driver, open the fuse tray by prying open the small tab as shown in the drawing above.

Please note that the tray will not come all of the way out.

Remove the old fuse and replace with a comparable new fuse and close the tray being sure that the tray snaps into position. You will find the information on the fuse used in the specifications section of this manual.

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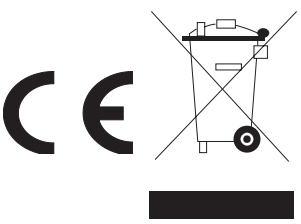

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